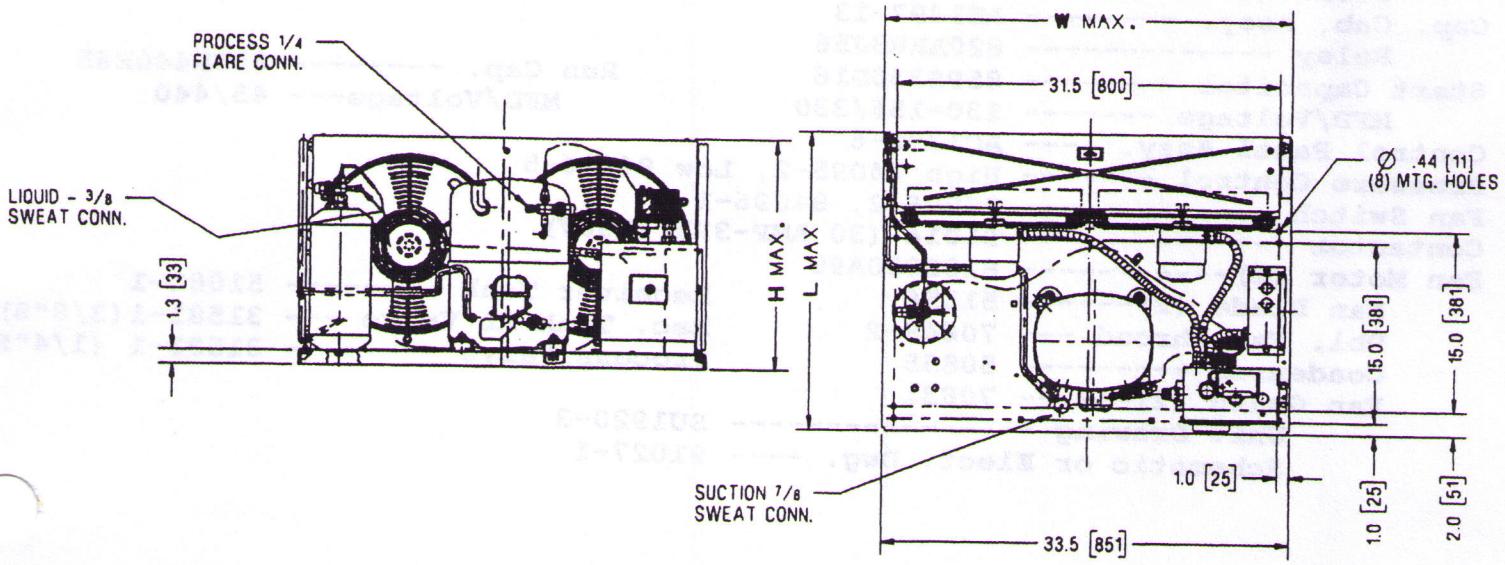
AVA7523ZXNXC

Date: July 15, 1999

TECUMSEH HERMETIC CONDENSING UNITS

MODEL AVA7523ZXNXC **R-404A** **3 HP** **AIR COOLED**



NOTE: DIMENSIONING = INCHES [MILLIMETERS]

Model	Dimensions				*Line Connection		Pumpdown 90 ° F 90% Full	Air CFM	Oil Chg oz.	Gr. Wt. Lbs.
	L	W	H	CH	Suct.	Liq.				
AVA7523ZXNXC	25.0	33.6	19.5	14.6	7/8S	3/8S	11.7#	1800	54	119

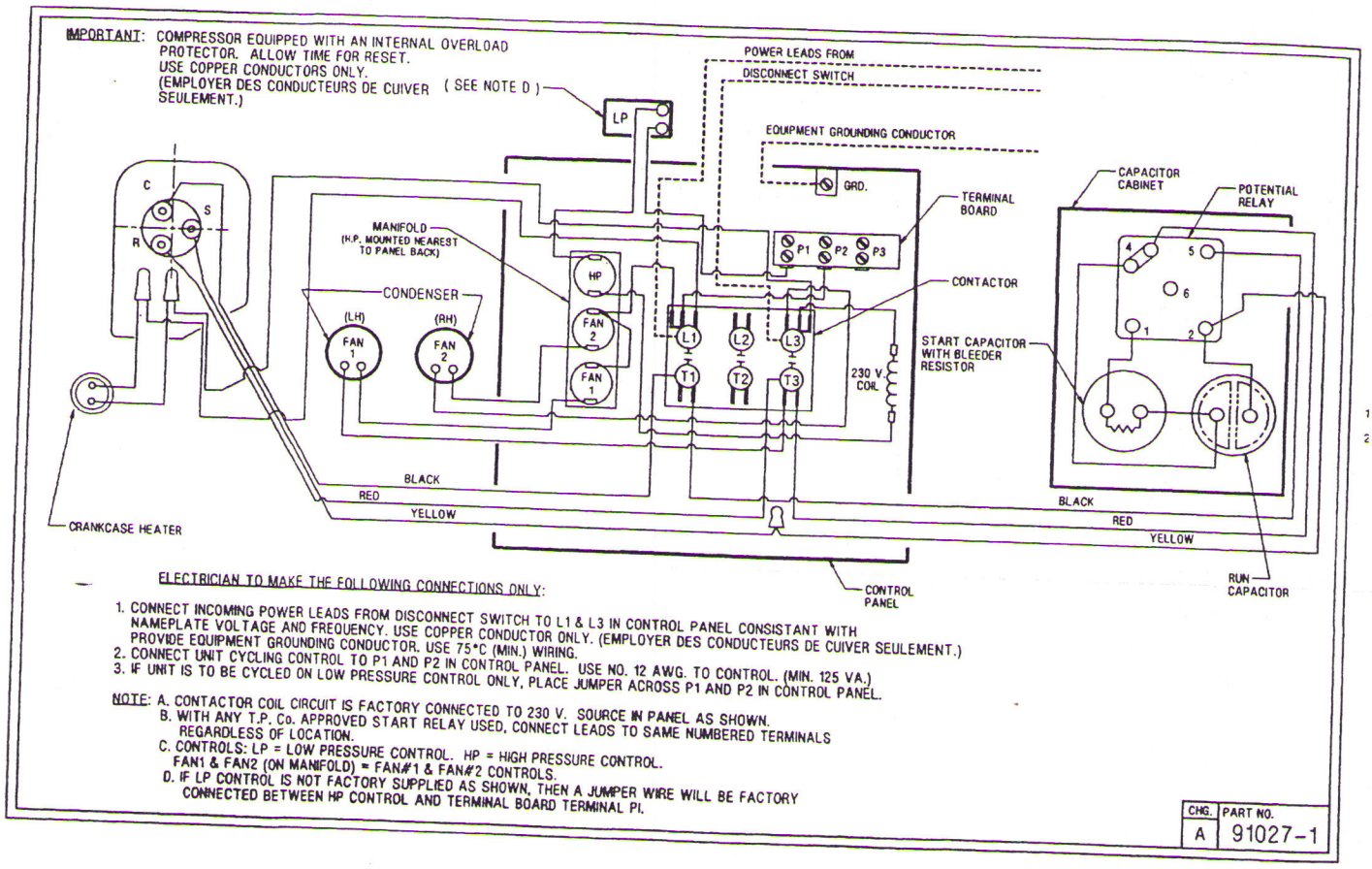
*F=Flare, S=Solder, RF or RS= Rotolock Valve with Flare or Solder Connections
Factory charge: 20 psig nitrogen - **MUST BE EVACUATED** **60 HZ PERFORMANCE**

Approved Evap. Range		Ambient											
		80°F			90° F			100° F			110° F		
°F	PSIG	BTUH	Watts	Head	BTUH	Watts	Head	BTUH	Watts	Head	BTUH	Watts	Head
-10	23.6	13974	2916	237	11958	2894	267	10117	2861	297	8246	3320	331
-5	27.9	15750	3122	246	13633	3121	278	11567	3097	309	9495	3311	343
0	32.6	17608	3336	257	15360	3352	288	13066	3338	320	10785	3308	355
5	37.7	19547	3558	268	17139	3589	299	14613	3586	333	12117	3311	368
10	43.2	21568	3787	280	18971	3830	311	16208	3839	345	13490	3320	380
15	49.1	23671	4023	292	20856	4076	324	17851	4099	358	14904	3337	137
20	55.4	25855	4268	305	22792	4326	337	19542	4365	372	16359	3359	406
25	62.2	28121	4519	319	24781	4581	351	21281	4637	385	17855	3388	419
30	69.6	30469	4778	333	26823	4841	365	23068	4916	399	19393	3424	432

Return gas temp. 40 ° F, 5 ° F subcooling

Date: 1-10-99

SPECIFICATIONS	AVA7523ZXNXC
Nominal Voltage	230/208-60-1
Unit B/M	2B3136-1
Voltage Range	253 to 187
Min. Circuit Ampacity	30.0
Max. Fuse Size (Amps)	50
Compressor Model	AVA7524ZXN
Bill of Material	AV179ET-001
RLA/LRA	21.4/106.6
Fan RLA	1.30
Overload	INTERNAL
Cap. Cab. Assy.	AE1397-13
Relay	820ARR3J56
Start Capacitor	85PS330D16
MFD/Voltage	130-156/330
Run Cap.	85PR440E65
MFD/Voltage	45/440
Control Panel Assy.	AC1390-6
Pressure Control	High 84095-2, Low 84026-5
Fan Switch	84096-2, 84096-1
Contactor	91014 (30 AMP-3PH, 230V)
Fan Motor (2)	810S050A99
Fan Blade (2)	51556
Dbl. Fan Shroud	70648-2
Condenser	50855
Fan Guard (2)	70831
Receiver Tank	51081-1
Rec. Tank RL Valve	31581-1(3/8"S)
Process Valve	31583-1 (1/4"F)
Unit Drawing	SU1920-3
Schematic or Elect. Dwg.	91027-1


IMPORTANT: COMPRESSOR EQUIPPED WITH AN INTERNAL OVERLOAD PROTECTOR. ALLOW TIME FOR RESET.
USE COPPER CONDUCTORS ONLY.
(EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) (SEE NOTE D)
POWER LEADS FROM
DISCONNECT SWITCH
EQUIPMENT GROUNDING CONDUCTOR
LP
GRD.
TERMINAL BOARD
CAPACITOR CABINET
POTENTIAL RELAY
C
S
R
MANIFOLD (H.P. MOUNTED NEAREST TO PANEL BACK)
CONDENSER
(LH)
(RH)
FAN 1
FAN 2
HP
P1
P2
P3
CONTACTOR
L1
L2
L3
T1
T2
T3
230 V COIL
START CAPACITOR WITH BLEEDER RESISTOR
4
5
6
1
2
BLACK
RED
YELLOW
CRANKCASE HEATER
CONTROL PANEL
RUN CAPACITOR
ELECTRICIAN TO MAKE THE FOLLOWING CONNECTIONS ONLY:
1. CONNECT INCOMING POWER LEADS FROM DISCONNECT SWITCH TO L1 & L3 IN CONTROL PANEL CONSISTANT WITH NAMEPLATE VOLTAGE AND FREQUENCY. USE COPPER CONDUCTOR ONLY. (EMPLOYER DES CONDUCTEURS DE CUIVER SEULEMENT.) PROVIDE EQUIPMENT GROUNDING CONDUCTOR. USE 75°C (MIN.) WIRING.
2. CONNECT UNIT CYCLING CONTROL TO P1 AND P2 IN CONTROL PANEL. USE NO. 12 AWG. TO CONTROL. (MIN. 125 VA.)
3. IF UNIT IS TO BE CYCLED ON LOW PRESSURE CONTROL ONLY, PLACE JUMPER ACROSS P1 AND P2 IN CONTROL PANEL.
NOTE: A. CONTACTOR COIL CIRCUIT IS FACTORY CONNECTED TO 230 V. SOURCE IN PANEL AS SHOWN.
B. WITH ANY T.P. Co. APPROVED START RELAY USED, CONNECT LEADS TO SAME NUMBERED TERMINALS REGARDLESS OF LOCATION.
C. CONTROLS: LP = LOW PRESSURE CONTROL. HP = HIGH PRESSURE CONTROL. FAN1 & FAN2 (ON MANIFOLD) = FAN#1 & FAN#2 CONTROLS.
D. IF LP CONTROL IS NOT FACTORY SUPPLIED AS SHOWN, THEN A JUMPER WIRE WILL BE FACTORY CONNECTED BETWEEN HP CONTROL AND TERMINAL BOARD TERMINAL P1.
CHG. A
PART NO. 91027-1